

**Lead and Wildlife:
A Bibliography of Selected Citations**

Prepared by:

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August 17, 2001

Summary and Disclaimer

Primarily using the United States Fish and Wildlife Service's searchable internet database, <http://fa.r9.fws.gov/r9fwrs/>, 80 citations were collected and listed in this abridged bibliography on the subject of lead and wildlife. The intent of this document is to provide basic information for public dissemination and awareness purposes, and will not be sold. It is not a comprehensive list of papers on the subject of lead and wildlife, nor is it a comprehensive list of species affected by environmental lead. Instead it is a "cross section" of the literature showing a long list of papers, which describe somehow or another how our wildlife is affected by lead poisoning.

Birds are apparently exposed to environmental lead more so than other classes of animals, however, mammals amphibians, and fish have also been exposed. Game birds as well as non-game birds are affected. Through various ecological pathways, not described here, many species of wildlife have been reported affected by this contaminant. Some of the common names of wildlife species affected by lead historically and presently include: Wood Duck, Ring-necked Duck, Northern pintail, Mottled Duck, Blue-winged Teal, Merganser, Eider, Canada Geese, Snow Geese, Trumpeter Swan, Mute Swan, Brown Pelicans, Gull species, Tern species, Heron species, Sandhill Cranes, Rail species, Common Loon, Grouse and Quail species, Woodcock, Rock Dove, Mourning Dove, Bald Eagles, California Condors, Turkey Vultures, Red-tailed Hawks, Sharp-shinned Hawks, American Kestrels and other falcons, Owls, Cattle, Deer, Squirrels, Raccoons, Fur seals, Bats, Turtles, Frogs, and Rainbow Trout. Essentially any animal that ingests lead will be affected and may subsequently die. Though this document does not deal with the causes or affects of lead poisoning in humans, it is important to point out that *we* are not immune to this contaminant any more than our wildlife is.

- 1) TITLE:** Bald Eagles and Waterfowl: The Lead Shot Connection
AUTHOR: Pattee, O.H.; Hennes, S.K.
PUBL.: 48th N. Amer. Wildl. Conf.
PUB DATA: n.d. pp. 230-237
- 2) TITLE:** Heavy Metal Concentrations in Ducks Wintering in the Lower Chesapeake Bay Region
AUTHOR: Di Giulio, R.T.; Scanlon, P.F.
PUBLISHER: Trans. Northeast Sect. Wildl. Soc.
SCOPE NOTE: Abstract
PUBL. DATA: n.d. pp. 111-112. Vol. 38
- 3) TITLE:** Tissue Lead Concentrations and Blood Characteristics of Rock Doves
AUTHOR: Kendall, R.J.; Morehead, W.B.; Jones, J.T.; Scanlon, P.F.
PUBLISHER: Virginia Journal of Science
SCOPE NOTE: Abstract of paper
PUBL. DATA: pp. 100. Vol. 31, No. 4
- 4) TITLE:** Lead Concentrations in Ruffed Grouse Collected from Southwestern Virginia
AUTHOR: Kendall, R.J.; Norman, G.R.; Scanlon, P.F.
PUBL.: Virginia Journal of Science
PUB DATA: pp. 100. Vol 31, No. 4
- 5) TITLE:** Lead and Mercury in Lesser Snow Geese Wintering in Louisiana
AUTHOR: West, L.D.; Newsom, J.D.
PUBL.: Proc. Ann. Conf. S.E. Assoc. Fish & Wildl. Agencies
PUB DATA: n.d. pp. 180-187. Vol. 31
- 6) TITLE:** The Availability of Lead Shot to Waterfowl on Mattamuskeet NWR and Its Management Implications.
AUTHOR: Voros, D.J.; Hagan, P.D.
PUBL.: U.S. Fish and Wildlife Service
- 7) TITLE:** Ingested Shot in Waterfowl on Sauvie Island Wildlife Area, 1980-81
AUTHOR: Vendshus, S.M.
PUBL.: Oregon Department of Fish and Wildlife
PUB DATA: n.d. 11 pp.
- 8) TITLE:** Lead Shot Poisoning of American Birds
AUTHOR: Stickel, W.H.
PUBL.: Patuxent Wildlife Research Center
PUB DATA: n.d. 8 pp.
- 9) TITLE:** Lead Shot: Its Settlement, Oxidation, and General Availability to Waterfowl
AUTHOR: Low, J.B.; Lind, G.; Spry, R.
PUB DATA: n.d. 20 pp.
- 10) TITLE:** Ingestion of Lead and Nontoxic Shotgun Pellets by Ducks in the Mississippi Flyway
AUTHOR: Anderson, W.L.; Havera, S.P.; Zercher, B.W.
PUBL.: J. of Wildl. Manage.
PUB DATA: 2000. pp. 848-857 (10 pp.). Vol. 64, No. 3
- 11) TITLE:** Lead Poisoning of Spectacled Eiders (*Somateria fischeri*) and a Common Eider (*Somateria mollissima*) in Alaska
AUTHOR: Franson, J.C.; Petersen, M.R.; Meteyer, C.U.; Smith, M.R.
PUBL.: Journal of Wildl. Diseases
PUB DATA: 1995. pp. 268-271 (4 pp.). Vol. 31, No. 2 <1>

- 12) TITLE:** Effects of Lead-contaminated Surface Water from a Trap and Skeet Range on Frog Hatching and Development
AUTHOR: Stansley, W.; Kosenak, M.A.; Huffman, J.E.; Roscoe, D.E.
PUBL.: Environ. Pollution
PUB DATA: 1997. pp. 69-74 (6 pp.). Vol. 96, No. 1
- 13) TITLE:** Environmental Contaminant Levels in Sharp-shinned Hawks from the Eastern United States
AUTHOR: Wood, P.B.; Viverette, C.; Goodrich, L.; Pokras, M.; Tibbott, C.
PUBL.: J. Raptor Res.
PUB DATA: 1996. pp. 136-144 (9 pp.). Vol. 30, No. 3
- 14) TITLE:** An Ecological Risk Assessment of Lead Shot Exposure in Non-Waterfowl Avian Species: Upland Game Birds and Raptors
AUTHOR: Kendall, R.J.; Lacher, T.E.; Bunck, C.; Daniel, B.; Driver, C.; Grue, C.E.; Leighton, F.; Stansley, W.; Watanabe, P.G.; Whitworth, M.
PUBL.: Environ. Toxicol. Chem
PUB DATA: 1996. pp. 4-20 (17 pp.). Vol. 15
- 15) TITLE:** Winter Survival of Immature Canvasbacks in Inland Louisiana
AUTHOR: Hohman, W.L.; Moore, J.L.; Franson, J.C.
PUBL.: J. Wildl. Manage.
PUB DATA: 1995. pp. 384-392 (10 pp.). Vol. 59, No. 2
- 16) TITLE:** Seasonal Ingestion of Toxic and Nontoxic Shot by Canada Geese
AUTHOR: DeStefano, S.; Brand, C.J.; Samuel, M.D.
PUBL.: Wildl. Soc. Bull.
PUB DATA: 1995. pp. 502-506 (6 pp.). Vol. 23, No. 3 <1>
- 17) TITLE:** Accumulation in and Effects of Lead and Cadmium on Waterfowl and Passerines in Northern Idaho
AUTHOR: Blus, L.J.; Henny, C.J.; Hoffman, D.J.; Grove, R.A.
PUBL.: Environ. Pollution
PUB DATA: 1995. pp. 311-318 (8 pp.). Vol. 89, No. 3
- 18) TITLE:** Lead in Hawks, Falcons and Owls Downstream from a Mining Site on the Coeur D'Alene River, Idaho
AUTHOR: Henny, C.J.; Blus, L.J.; Hoffman, D.J.; Grove, R.A.
PUBL.: Environ. Monitoring and Assessment
PUB DATA: 1994. pp. 267-288 (22 pp.). Vol. 29
- 19) TITLE:** Waterfowl Hunter Compliance with Nontoxic Shot Regulations in Illinois
AUTHOR: Havera, S.P.; Hine, C.S.; Georgi, M.M.
PUBL.: Wildl. Soc. Bull.
PUB DATA: 1994. pp. 454-460 (8 pp.). Vol. 22, No. 3
- 20) TITLE:** A Review of Lead Poisoning in Swans
AUTHOR: Blus, L.J.
PUBL.: Comp. Biochem. Physiol.
PUB DATA: 1994. pp. 259-267 (10 pp.). Vol. 108C, No. 3
- 21) TITLE:** Lead Poisoning in a Mississippi Sandhill Crane
AUTHOR: Franson, J.C.; Hereford, S.G.
PUBL.: Wilson Bull.
PUB DATA: 1994. pp. 766-768 (4 pp.). Vol. 106, No. 4

- 22) TITLE:** Soil Ingestion and Lead Concentration in Wildlife Species
AUTHOR: Connor, E.E.
PUB DATA: 1993. 109 pp.
- 23) TITLE:** Marine Birds and Trace Elements in the Temperate North Pacific
AUTHOR: Ohlendorf, H.M.
PUBL.: Can. Wildl. Serv.
PUB DATA: 1993. pp. 232-240 (10 pp.).
- 24) TITLE:** Accumulation and Effects of Lead and Cadmium on Wood Ducks Near a Mining and Smelting Complex in Idaho
AUTHOR: Blus, L.J.; Henny, C.J.; Hoffman, D.J.; Grove, R.A.
PUBL.: Ecotoxicology
PUB DATA: 1993. pp. 139-154 (16 pp.). Vol. 2
- 25) TITLE:** Blood Lead Concentrations and Ingested Shot in Ring-necked Ducks at Catahoula Lake, Louisiana
AUTHOR: Peters, M.S.; Afton, A.D.
PUBL.: Southeastern Association of Fish and Wildlife Agencies
PUB DATA: 1993. pp. 292-298 (7 pp.). Vol. 47
- 26) TITLE:** Availability and Ingestion of Lead Shot by Mourning Doves (*Zenaida macroura*) in Southeastern New Mexico
AUTHOR: Best, T.L.; Garrison, T.E.; Schmitt, C.G.
PUBL.: The Southwestern Naturalist
PUB DATA: 1992. pp. 287-292 (6 pp.). Vol. 37, No. 3
- 27) TITLE:** Blood Lead and Ingested and Embedded Shot in Diving Ducks during Spring
AUTHOR: Havera, S.P.; Whitton, R.M.; Shealy, R.T.
PUBL.: Journal of Wildlife Management
PUB DATA: 1992. pp. 539-545 (7 pp.). Vol. 56, No. 3
- 28) TITLE:** Effects of Lead Ingestion on Immune Function in Quail
AUTHOR: Grasman, K.A.
PUB DATA: 1992. 135 pp.
- 29) TITLE:** Ingestion of Lead Pellets by Scaled Quail (*Callipepla squamata*) and Northern Bobwhite (*Colinus virginianus*) in Southeastern New Mexico
AUTHOR: Best, T.L.; Garrison, T.E.; Schmitt, C.G.
PUBL.: Texas Journal of Science
PUB DATA: 1992. pp. 99-107 (9 pp.). Vol. 44, No. 1
- 30) TITLE:** Lead Poisoning of Avian Species Other Than Waterfowl
AUTHOR: Locke, L.N.; Friend, M.
PUBL.: The International Waterfowl and Wetlands Research Bureau
PUB DATA: 1992. 6 pp.
- 31) TITLE:** Environmental Pathology of the Common Loon in New England
AUTHOR: Pokras, M.A.; Chafel, R.M.; Gibson, M.
PUBL.: Trans. NE Section of The Wildl. Soc.
PUB DATA: 1991. pp. 31-38 (8 pp.). Vol.48
- 32) TITLE:** Lead Hazards within the Range of the California Condor
AUTHOR: Pattee, O.H.; Bloom, P.H.; Scott, J.M.; Smith, M.R.

- PUBL.: The Condor**
PUB DATA: 1990. pp. 931-937 (8 pp.). Vol. 92
- 33) **TITLE:** Relationship of Diets and Environmental Contaminants in Wintering Bald Eagles
AUTHOR: Frenzel, R.W.; Anthony, R.G.
PUBL.: Journal of Wildlife Management
PUB DATA: 1989. pp. 792-802. Vol. 53, No. 3
- 34) **TITLE:** Lead Poisoning of Northern Pintail Ducks Feeding in a Tidal Meadow Contaminated with Shot from a Trap and Skeet Range
AUTHOR: Roscoe, D.E.; Widjeskog, L.; Stansley, W.
PUBL.: Bull. Environ. Contam. Toxicol.
PUB DATA: 1989. pp. 226-233 (8 pp.). Vol. 42
- 35) **TITLE:** Environmental Contaminants in California Condors
AUTHOR: Wiemeyer, S.N.; Scott, J.M.; Anderson, M.P.; Bloom, P.H.; Stafford, C.J.
PUBL.: Journal Wildlife Management
PUB DATA: 1988. pp. 238-247. Vol. 52, No. 2
- 36) **TITLE:** Lead Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review
AUTHOR: Eisler, R.
PUBL.: U.S. Fish and Wildlife Service
PUB DATA: 1988. 140 pp.
- 37) **TITLE:** Shot Ingestion by Dabbling Ducks Wintering in Coastal South Carolina
AUTHOR: Gray, B.T.; Gordon, D.H.; Strange, T.
PUBL.: Southeastern Association of Fish and Wildlife Agencies
PUB DATA: 1988. pp. 368-375 (8 pp.). Vol. 42
- 38) **TITLE:** Heavy Metals in Feathers of Magpies (*Pica pica*)
AUTHOR: Kooiker, G.
PUBL.: J. Ornithology
PUB DATA: 1986. pp. 25-36. Vol. 127, No. 1
- 39) **TITLE:** Lead and Zinc Levels in the Eggshells of California Condors
AUTHOR: Ramey, R.R.
PUBL.: California Dept. of Fish and Game
PUB DATA: 1986. 15 pp.
- 40) **TITLE:** Early Postnatal Lead Exposure: Behavioral Effects in Common Tern Chicks (*Sterna hirundo*)
AUTHOR: Burger, J.; Gochfeld, M.
PUBL.: J. Toxicol. and Environ. Health
PUB DATA: 1985. pp. 869-886. Vol. 16, No. 6
- 41) **TITLE:** Clinicopathologic Aspects of Lead Poisoning in Birds: A Review
AUTHOR: Lumeij, J.T.
PUBL.: Veterinary Quarterly
PUB DATA: 1985. pp. 133-138. Vol. 7, No. 2
- 42) **TITLE:** The Breeding Biology of the Mute Swan, *Cygnus olor*, on the River Thames with Special Reference to Lead Poisoning
AUTHOR: Birkhead, M.; Perrins, C.
PUBL.: Biological Conservation
PUB DATA: 1985. pp. 1-11. Vol. 32

- 43) TITLE:** Tissue Distribution of Trace Elements and DDE in Brown Pelicans
AUTHOR: Ohlendorf, H.M.; Anderson, D.W.; Boellstorff, D.E.; Mulhern, B.M.
PUBL.: Bull. Environ. Contam. Toxicol.
PUB DATA: 1985. pp. 183-192. Vol. 35
- 44) TITLE:** Survival, Growth, and Accumulation of Ingested Lead in Nestling American Kestrels (*Falco sparverius*)
AUTHOR: Hoffman, D.J.; Franson, J.C.; Pattee, O.H.; Bunck, C.M.; Anderson, A.
PUBL.: Arch. Environm. Contam. Toxicol.
PUB DATA: 1985. pp. 89-94. Vol. 14
- 45) TITLE:** The Effects of Ingested Lead Shot on Mottled Ducks
AUTHOR: Krystofik, J.J.
PUB DATA: 1985. 131 pp.
- 46) TITLE:** Report to the California Fish and Game Commission on Condor Mortality Issues, Actions and Recommendations
PUBL.: California Dept. of Fish and Game
PUB DATA: 1985. 58 pp.
- 47) TITLE:** Lead Poisoning in Cattle and Geese
AUTHOR: Shore, S.H.W.; Morgan, G.; Cross, P.G.
PUBLISHER: Veterinary Record
SCOPE NOTE: Letter
PUBL. DATA: 1984. pp. 126-127. Vol. 114, No. 5
ABSTRACT: A case is reported of lead poisoning involving adult cattle (cows) and geese after consuming barley contaminated with lead shot from an adjacent clay pigeon shooting area.
- 48) TITLE:** Recent Advances in the California Condor Research and Recovery Program. Part I
AUTHOR: Goodloe, R.B.
PUBL.: Endangered Species Technical Bulletin
PUB DATA: 1984. pp. 8-10. Vol. IX, No. 12
- 49) TITLE:** Lead and Organochlorine Residues in Blue-winged Teal on Texas Playas
AUTHOR: Wallace, B.M.; Warren, R.J.
PUB DATA: 1983. pp. 45. Vol. 14
- 50) TITLE:** Lead Toxicosis in Psittacine Birds
AUTHOR: McDonald, S.E.; Lowenstein, L.J.
PUBL.: Ger. Dem. Rep., Akademie-Verlag.
PUB DATA: 1983. pp. 183-196
- 51) TITLE:** Management of Avian Pox and Lead Poisoning of Laysan Albatross at Midway Islands, Northwestern Hawaiian Islands
AUTHOR: Fefer, S.I.; Sileo, L.; Stroud, R.; Hansen, W.; Naughton, M.; Friend, M.
PUBL.: Pac. Seabird Group Bull.
PUB DATA: 1983. pp. 48. Vol. 10, No. 2
- 52) TITLE:** Heavy Metals in Northern Fur Seals (*Callorhinus ursinus*) from the Pribilof Islands, Alaska
AUTHOR: Goldblatt, C.J.; Anthony, R.G.
PUBL.: Journal of Environmental Quality
PUB DATA: 1983. Vol. 12, No. 4. pp. 478-482
- 53) TITLE:** Heavy Metal Residues in Prefledgling Black-crowned Night-Herons from Three Atlantic Coast Colonies

- AUTHOR:** Custer, T.W.; Mulhern, B.L.
PUBL.: Bulletin of Environmental Contaminants and Toxicology
PUB DATA: 1983. pp. 178-185. Ref., Charts
- 54) TITLE:** Lead and Cadmium in Muskrat and Cattail Tissues
AUTHOR: Erickson, D.W.; Lindzey, J.S.
PUBL.: J. Wildl. Manage.
PUB DATA: 1983. pp. 550-555 (6 pp.). Vol. 47, No. 2
- 55) TITLE:** Spatial and Temporal Variation in Lead and Cadmium in the Laughing Gull, *Larus atricilla*
AUTHOR: Reid, M.; Hacker, C.S.
PUBL.: Mar. Pollut. Bull.
PUB DATA: 1982. pp. 387-389. Vol. 13, No. 11
- 56) TITLE:** Bioaccumulation of Lead and Cadmium in the Royal Tern and Sandwich Tern
AUTHOR: Maedgen, J.L.; Hacker, C.S.; Schroder, G.D.; Weir, F.W.
PUBL.: Arch. Environ. Contam. Toxicol.
PUB DATA: 1982. pp. 99-102. Vol. 11, No. 1
- 57) TITLE:** Toxic Effects of Lead and Lead Compounds on Human Health, Aquatic Life, Wildlife Plants, and Livestock
AUTHOR: Demayo, A.; Taylor, M.C.; Taylor, K.W.; Hodson, P.V.
PUBL.: CRS Crit. Rev. Environ. Control
PUB DATA: 1982. pp. 257-305. Vol. 12, No. 4
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AUTHOR: Smith, G.J.; Rongstad, O.J.
PUBLISHER: Environmental Pollution (Series A)
PUBL. DATA: 1982. pp. 121-134. Vol. 28
ABSTRACT: Total body concentration of zinc, copper, cadmium, lead, nickel, mercury, and arsenic were determined for *Peromyscus maniculatus* and *Microtus pennsylvanicus* from an active zinc-copper mine near Timmins, Ontario, Canada, and a proposed zinc-copper mine near Crandon Wisconsin. Metal concentrations were evaluated with respect to area, species, sex and age group.
- 59) TITLE:** Further Studies on Lead Poisoning in Birds of Prey
AUTHOR: Meister, V.B.; Kosters, J.
PUBL.: Praktische Tierartz
PUB DATA: 1981. pp. 870, 875-878. Vol. 62, No. 10
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AUTHOR: Reiser, M.H.; Temple, S.A.
PUBL.: Chiron Publications LTD
PUB DATA: 1981. pp. 21-25
- 61) TITLE:** Body Burden of Lead in Pennsylvania Deer and Squirrels from Hair Analysis
AUTHOR: McLaughlin, K.; Bauer, C.; Falk, N.W.; Oberholser, K.
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PUB DATA: 1981. pp. 98. Vol. 55, Issue 1
- 62) TITLE:** Lead in the Bone and Soft Tissues of Box Turtles Caught Near Smelters
AUTHOR: Beresford, W.A.; Donovan, M.P.; Henninger, J.M.; Waalkes, M.P.
PUBL.: Bull. Environm. Contam. Toxicol.
PUB DATA: 1981. pp. 349-352. Vol. 27

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AUTHOR: May, T.W.; McKinney, G.L.
PUBL.: Pesticides Monitoring Journal
PUB DATA: 1981. pp. 14-38. Vol. 15, No. 1
- 64) TITLE:** Dove Hunting as a Contributor to Lead Poisoning in Waterfowl
AUTHOR: Ouchley, K.
PUBL.: U.S. Fish and Wildlife Service
PUB DATA: 1981(?). 13 pp. Ref., Charts, Graphs
- 65) TITLE:** Histological Effects and Lead Concentrations in Tissues of Adult Male Ringed Turtle Doves That Ingested Lead Shot
AUTHOR: Kendall, R.J.; Veit, H.P.; Scanlon, P.F.
PUBL.: Journal of Toxicology and Environmental Health
PUB DATA: 1981. pp. 649-658. Ref., Charts, Illus.
- 66) TITLE:** Lead Residues in Sora Rails from Maryland
AUTHOR: Stendell, R.C.; Artmann, J.W.; Martin, E.
PUBL.: Journal of Wildlife Management
PUB DATA: 1980. pp. 525-527. Vol. 44, No. 2
- 67) TITLE:** Lead Residue in Eastern Tent Caterpillars (*Malacosoma americanum*) and Their Host Plant (*Prunus serotina*) Close to a Major Highway
AUTHOR: Beyer, W.N.; Moore, J.
PUBL.: Environmental Entomology
PUB DATA: 1980. pp. 10-12. Ref., Graphs
- 68) TITLE:** Factors Affecting the Distribution, Food Habits, and Lead Toxicosis of Redhead Ducks in the Laguna Madre, Texas
AUTHOR: Marsh, S.L.
PUB DATA: 1979. . .
- 69) TITLE:** Lead Poisoning in Mallard Ducks (*Anas platyrhynchos*)
AUTHOR: Roscoe, D.E.; Nielsen, S.W.
PUBL.: National Acad. Sci.
PUB DATA: 1979. pp. 165-176
- 70) TITLE:** Lead Levels in Primary Feathers of American Woodcocks Harvested by Hunters Throughout the United States Range
AUTHOR: Scanlon, P.F.; O'Brien, T.G.; Schauer, N.L.; Oderwald, R.G.
PUBL.: Bull. Environ. Contam. Toxicol.
PUB DATA: 1979. pp. 683-688. Vol. 21, No. 4/5
- 71) TITLE:** Lead Accumulation in Aquatic Plants from Metallic Sources Including Shot
AUTHOR: Behan, M.J.; Kinraide, T.B.; Seller, W.I.
PUBL.: Journal of Wildlife Management
PUB DATA: 1979. pp. 240-244. Vol. 43, No. 1
- 72) TITLE:** Lead Shot Poisoning in Red-tailed Hawks
AUTHOR: Stein, S.
PUB DATA: 1979. 77 pp.
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AUTHOR: Passino, D.R.M.; Cotant, C.A.

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- 74) TITLE:** Tissue Metal Concentrations in Two Crayfish Species Cohabitating a Tennessee Cave Stream
AUTHOR: Dickson, G.W.; Briese, L.A.; Giesy, J.P.
PUBL.: Oecologia
PUB DATA: 1979. pp. 8-12. Ref., Charts
- 75) TITLE:** Lead Concentration: Bats vs. Terrestrial Small Mammals Collected Near a Major Highway
AUTHOR: Clark, D.R.
PUBL.: Environmental Science and Technology
PUB DATA: 1979. pp. 338-341. Ref., Charts
- 76) TITLE:** Lead Poisoning in a Wild Turkey
AUTHOR: Stone, W.B.; Butka, S.A.
PUBL.: New York Fish and Game
PUB DATA: 1978. pp. 169. Vol. 25, No. 2
- 77) TITLE:** Lead Poisoning of Raccoons in Connecticut
AUTHOR: Dinters, R.W.; Nielsen, S.W.
PUBL.: Journal of Wildlife Diseases
PUB DATA: 1978. pp. 187-192. Vol. 14, No. 2
- 78) TITLE:** Chronic Toxicity of Water-borne and Dietary Lead to Rainbow Trout (*Salmo gairdneri*) in Lake Ontario Water
AUTHOR: Hodson, P.V.; Blunt, B.R.; Spry, D.J.
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PUBL.: Environmental Pollution
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AUTHOR: Munro, J.A.
PUBL.: Can. Field Natur.
PUB DATA: 1925. pp. 160-162. Vol. 39, No. 7